# Jeffery Thomas Mitchell

Home: (631) 821-0175

Office: (631) 344-3015

E-Mail: jtmitch@optonline.net

## Skills and Experience:

**Programming languages:** C++, Java, C, FORTRAN.

**Scripting languages:** PERL, Tcl/Tk.

**Software application development:** Over 12 years experience developing pattern recognition software (including experience with neural network techniques), data analysis, data visualization (using the OpenGL and X11 libraries), animation, simulation, and real-time data monitoring applications for five major high energy physics experiments.

**Web administration:** 6 years experience maintaining several web sites at Brookhaven National Laboratory, including educational sites integrating Java applets and animations. My animations have appeared on news programs of many major networks including ABC, CNN, and BBC.

**System administration:** 5 years experience maintaining a small IRIX 5.3 system for 50 users. 2 years experience in LINUX system maintenance.

**Management:** 4 years experience as the coordinator of a successful project to develop pattern recognition and data analysis software for the PHENIX experiment at Brookhaven National Laboratory. There were over 40 physicists involved in the project. Currently serving as coordinator of the PHENIX event visualization project.

**Additional Comments:** My work has been published in many scientific journals including Nuclear Instruments and Methods, IEEE Transactions on Nuclear Science, Physical Review, and Nuclear Physics. I have presented my work in an international forum including seminars in Europe, China, Japan, Yale, and MIT.

## Education:

1986-1992: Yale University, New Haven, CT

- Ph. D. - December 1992.
- M. S. - May, 1988.
- M. Phil. - May, 1988.

1982-1986: Louisiana State University in Shreveport, Shreveport, LA

- B. S. - May, 1986.

## Past Employment:

February, 1995 - Present:

Physicist, Brookhaven National Laboratory
*Projects: Pattern Recognition software, data analysis, scientific visualization, animation.*

June, 1992 - January, 1995:

Postdoctoral Fellow, Lawrence Berkeley National Laboratory
*Projects: Data analysis, pattern recognition, simulation, event visualization.*

1988-1992:

Research Assistant, Yale University
Teaching Assistant, Yale University

## Professional Membership and Awards

American Physical Society

Phi Kappa Phi

Recipient of the 2001 Brookhaven National Laboratory Sambamurti Prize.